PATENT ABSTRACTS OF JAPAN

(11)Publication number: 2002-352870(43)Date of publication of application: 06.12.2002

(51)Int.Cl.

H01M 14/00

H01L 31/04

(21)Application number: 2001-160978 (71)Applicant: TOYOTA CENTRAL RES &

DEV LAB INC

AISIN SEIKI CO LTD

(22)Date of filing: 29.05.2001 (

(72)Inventor: HIGUCHI KAZUO

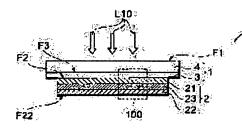
TSUKIGASE AZUSA INABA TADASHI AZUMA HIROZUMI MOTOHIRO TOMOMI TOYODA TATSUO NAKAJIMA JUNJI

SANO TOSHIYUKI

(54) OPTICAL ELECTRODE AND DYE SENSITIZING TYPE SOLAR BATTERY HAVING THE SAME

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an optical electrode having a superior incident light absorbing efficiency and a dye sensitizing type solar battery having a superior energy conversion efficiency.



semiconductor electrode 2 with a light receiving surface F2, and a transparent electrode 1 arranged on the light receiving surface F2 so that the transparent electrode is adjacent to the semiconductor electrode. The semiconductor electrode 2 comprises a plurality of layers, each of which comprises a porous film composed of oxide semiconductor particle. The maximum value or average of pore size distribution in each layer increases from the most inner layer 21 arranged in the closest position to the transparent electrode to the most outer layer 22 arranged in

the farthest position to the transparent layer.

LEGAL STATUS

[Date of request for examination]

12.12.2007

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]